

Figure 1A

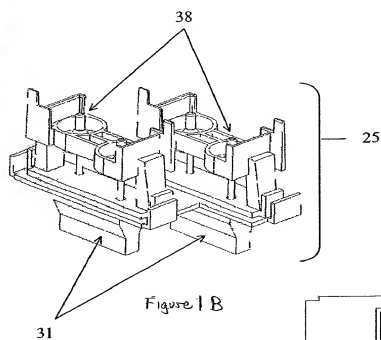
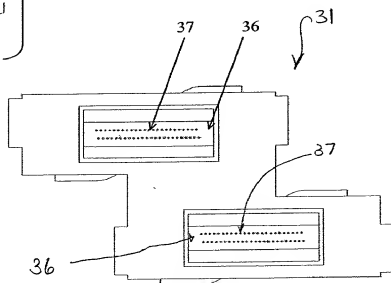


Figure 1C



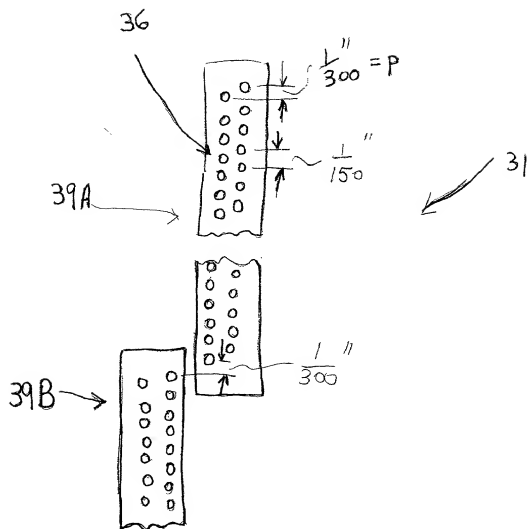


Fig. 2

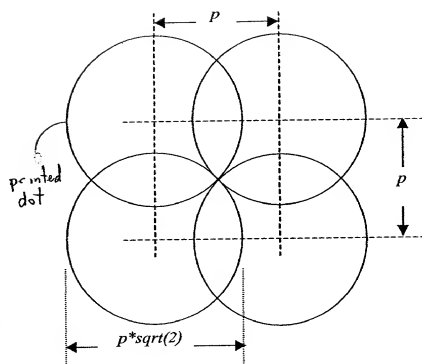


Figure 3

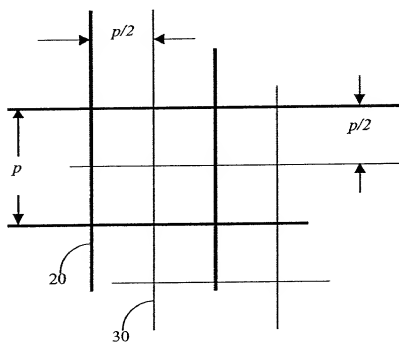


Figure 4

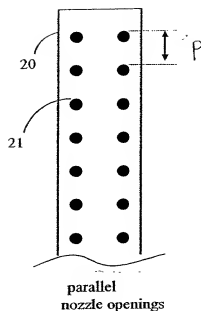


FIG. 5

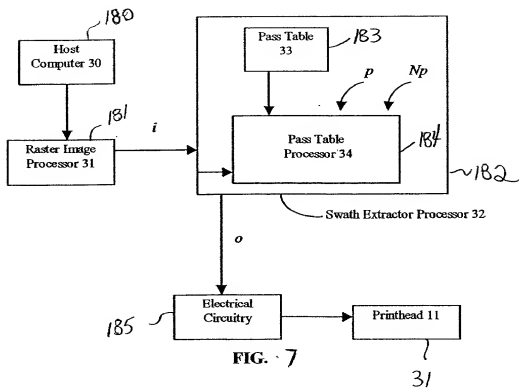


FIG. 7

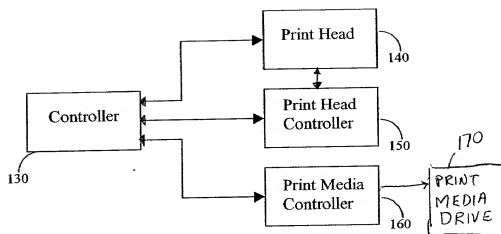
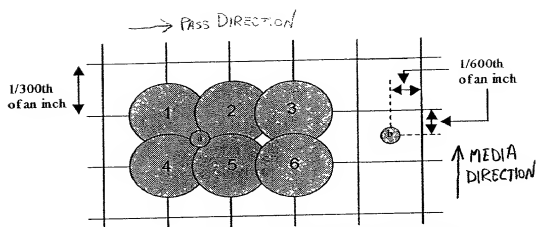


Figure 5A



Drops 1 to 6 are on the original raster, drops a & b are on the shifted raster.

Fig. 6

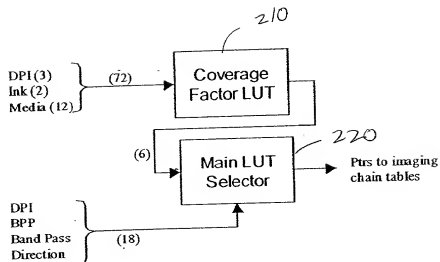


Fig. 8

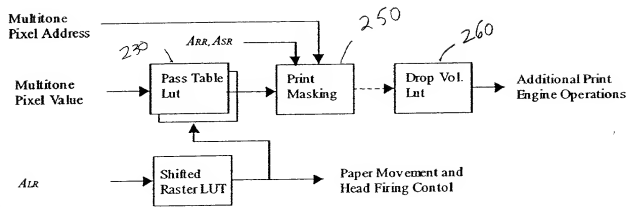


Fig. 9

300 dpi, 2-bit printing
with 2 banding passes

Reference Raster Pass Table

Multi-Tone Level	Drop Volume Index
0	A
1	C
2	E
3	F

Fig. 10(a)

Shifted Raster LUT

Print Pass	Shift Indicator
0	F
1	T
2	F
3	T

Fig. 10(c)

Shifted Raster Pass Table

Multi-Tone Level	Drop Volume Index
0	A
1	A
2	A
3	B

Fig. 10(b)

Print Mask

0	1
1	0

Fig. 10(d)

DROP VOLUME LUT

Drop Volume Index	Drop Volume
A	0
B	8 pl
C	16 pl
D	32 pl
E	48 pl
F	64 pl

Fig. 10(e)

2-bit multitone image from host

0	1	1	2	2	3
0	1	2	2	3	3
1	1	2	2	3	3
1	2	2	3	3	0

Location $(i,j) = (0,0)$

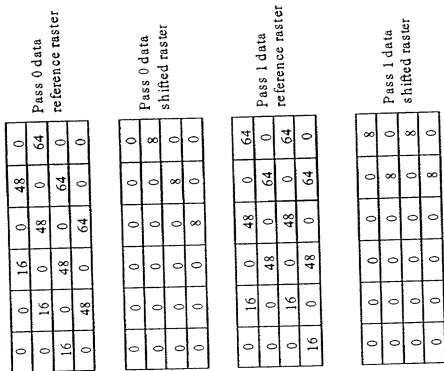


Figure 11

Example Print mode: 300 dpi, 4 bits/pix, 4 banding passes

Ink Volumes: 0,8,16,24,32,40,48,56,64,72,80

Reference Raster Pass Table

Multi-Tone Level	Drop Volume Index
0	A
1	B
2	C
3	C
4	D
5	D
6	E
7	E
8	F
9	F
10	F
11	A
12	A
13	A
14	A
15	A

Fig. 12(a)

Shifted Raster LUT

Print Pass	Shift Indicator
0	F
1	T
2	F
3	T
4	F
5	T
6	F
7	T

Fig. 12(c)

Print Mask

0	1	0	1
1	0	1	0
0	1	0	1
1	0	1	0

Fig. 12(d)

Drop Volume LUT

Drop Volume Index	Drop Volume
A	0
B	8 pl
C	16 pl
D	32 pl
E	48 pl
F	64 pl

Fig. 12(e)

Shifted Raster Pass Table

Multi-Tone Level	Drop Volume Index
0	A
1	A
2	A
3	B
4	A
5	B
6	A
7	B
8	A
9	B
10	C
11	A
12	A
13	A
14	A
15	A

Fig. 12(b)

Example Print mode: 300 dpi, 4 bits/pix, 2 banding passes

Ink Volumes: 0,8,16,32,48,64,72

Reference Raster Pass Table

Multi-Tone Level	Drop Volume Index
0	A
1	B
2	C
3	D
4	E
5	F
6	F
7	A
8	A
9	A
10	A
11	A
12	A
13	A
14	A
15	A

Fig. 13(a)

Shifted Raster LUT

Print Pass	Shift Indicator
0	F
1	T
2	F
3	T

Fig. 13(c)

Print Mask

0	1
1	0

Fig. 13(d)

Drop Volume LUT

Drop Volume Index	Drop Volume
A	0
B	8 pl
C	16 pl
D	32 pl
E	48 pl
F	64 pl

Fig. 13(e)

Shifted Raster Pass Table

Multi-Tone Level	Drop Volume Index
0	A
1	A
2	A
3	A
4	A
5	A
6	B
7	A
8	A
9	A
10	A
11	A
12	A
13	A
14	A
15	A

Fig. 13(b)